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Connected stadiums

MEA | South Africa | Real estate | Digital infrastructure

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Why did Cape Town need a smart stadium?

With South Africa hosting the 2010 FIFA World Cup, the city of Cape Town knew that the eyes of the world would be watching. It wanted to build the most intelligent stadium in the world — one that is fan-friendly, operationally efficient, and safe.



Dimension Data was *awarded the contract to build the entire IT infrastructure for Cape Town Stadium.*



Boasting a world-first roof design, the *15-floor high, 68,000-seater stadium* spans an area equivalent to six city blocks.



It's also the *most intelligent building of its kind in Southern Africa.*

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How the intelligent, connected stadium was created

The intelligence of the Cape Town Stadium centres on the convergence of all communications onto a single core infrastructure – that of the IP network.



A common, structured communications infrastructure *goes beyond catering for the traditional IT* services of voice, video, and data.



It *links all the stadium's disparate building services* to a single interface to create a *central building management system (BMS)*.



The BMS contains all stadium information and *the entire environment is monitored via a graphics page known as a 'human-machine interface'*. This acts as the 'brain' of the stadium.



Linking all of the stadium's sub-systems and technologies via an IP platform means that *every system can be controlled remotely*.

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What the intelligent Cape Town Stadium looks like

Throughout the Cape Town Stadium project, there was an awareness of its future beyond the 2010 FIFA World Cup. This multi-purpose venue will also be used to stage major events and concerts for many years to come. From a technology perspective, this meant that, in addition to being operational from day one, the stadium needed to be future-proofed for a lifespan of up to 50 years.



Ensuring easy entry to and exit from a stadium of this size and scale as well as *ensuring the safety of 68,000 fans was a priority.* Technology played a central role in achieving both. *Fire, access control, and security all run off the central IP backbone.*



With the *large stadium screens*, those watching *pitch-side can enjoy immediate playbacks* of the sporting action.



The stadium has *77 square metres of LED video walls, 102 screens, 444 telephone and data points, and 200 CCTV cameras.*



The pitch-side media centre delivers *real-time game reporting and television visuals to anywhere in the world.*



We'd love to talk to you.

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